



SYLLABUS: ENTMLGY/PLNTPTH 5604

CAPSTONE COURSE: PROBLEM-BASED STUDIES IN PLANT HEALTH

SPRING 2021

Distance Learning

2 credit hours

Instructors:

- Dr. Ellen Klinger, Entomology
 - Klinger.80@osu.edu; 614-697-3086; E-mail is the preferred way to reach me.
Office hours: office hours Wednesdays 2:30-3:00 (virtual via Zoom – link will be posted on Carmen) and by appointment (virtual or Kottman Hall 255)
- Dr. Monica Lewandowski, Plant Pathology
 - lewandowski.52@osu.edu; E-mail is the preferred way to reach me.
Office hours (virtual only): office hours Mondays 4-5 pm (virtual via Zoom – see Carmen) and other days/times by appointment. Zoom Link
<https://go.osu.edu/monicazoom>
Meeting ID: 955 6584 8745
Password: GoBucks One tap mobile +16513728299

Course Organization

Class meeting times synchronous and online: Tu Th 3:55PM - 5:15PM

Students in the online section will be expected to connect synchronously on the assigned class day/time. Online students will interact with both the instructors and in-person students during these sessions.

Note: Entire class will meet via Zoom for all students on the following dates, regardless of distance learning or in-person status

1/12/2021; 1/14/2021; 3/2/2021; 3/4/2021.

Course description

Students will be presented with a current plant health problem in a business or organization setting. They will gather diverse information from consultants, synthesize novel solutions, and develop implementation plans. Students will also be preparing for their next career steps.

Prerequisites

Junior, senior, or graduate standing in Plant Pathology, Plant Health Management, or Entomology

Course materials

Required Textbook

- None

Recommended reference materials

- Provided on Carmen course site.

Internet resources

- Carmen - <https://carmen.osu.edu/> (**Check frequently**; all materials will be uploaded here)
- International Year of Plant Health - <https://www.ippc.int/en/iyph/>
- Entomological Society of America - <https://www.entsoc.org/>
- American Phytopathological Society – <https://apsnet.org>

Supplemental materials

- Additional readings are drawn from a variety of sources and will be posted on the Carmen course site.

Other fees or requirements

None.

Course technology

For help with your password, university e-mail, Carmen, or any other technology issues, questions, or requests, contact the OSU IT Service Desk. Standard support hours are available at <https://ocio.osu.edu/help/hours>, and support for urgent issues is available 24x7.

- **Self-Service and Chat support:** <http://ocio.osu.edu/selfservice>
- **Phone:** 614-688-HELP (4357)
- **Email:** 8help@osu.edu
- **TDD:** 614-688-8743

Baseline technical skills necessary for online courses

- Basic computer and web-browsing skills
- [Navigating Carmen](#)

Technology skills necessary for this specific course

- Zoom for text, audio, and video chat
- Recording a slide presentation with audio narration, OR
- Recording, editing, and uploading video

Necessary equipment

- **Computer:** current Mac (OS X) or PC (Windows)
If you do not have the following items, we can provide access or loan equipment:
- **Webcam:** built-in or external webcam, fully installed
- **Microphone:** built-in laptop or tablet mic or external microphone

Necessary software

- Microsoft Word, Microsoft PowerPoint, Adobe Acrobat Reader
Microsoft Office 365: All Ohio State students are now eligible for free Microsoft Office 365 ProPlus through Microsoft's Student Advantage program. Full instructions for downloading and installation can be found at: <https://ocio.osu.edu/kb04733>

Course Learning Goals and Outcomes

By the end of this course, students should successfully be able to:

Learning Goal 1: Know the importance of plant health and the impacts of plant pests in agricultural and natural ecosystems.

Learning Outcome 1.1: Demonstrate a holistic understanding of sustainability that includes entomology and plant pathology.

Learning Goal 2: Learn how to apply principles of entomology and plant health management to field and laboratory studies to current scientific issues.

Learning Outcome 2.1: Participate in research-based webinars with professionals

Learning Outcome 2.2: Understand various career paths in Entomology and Plant Pathology

Learning Goal 3: Use current information to evaluate environmentally-sound disease and/or insect management strategies using current informational resources.

Learning Outcome 3.1: Develop educational materials (print and/or online)

Learning Goal 4: Learn how to effectively communicate entomology/plant topics through various forms of communication.

Learning Outcome 4.1 – create resumes and CVs.

Learning Outcome 4.2 – create and present a personal digital story

Learning Outcome 4.3 – develop an interactive outreach activity

How This Course Works

Mode of delivery: This course section is 100% **online**. Class meetings are synchronous. Class sessions and materials will be organized on Carmen by major project topic, and not by week. We will update the Carmen page with a current syllabus schedule if needed, but students should use the schedule of the syllabus as a guideline for weekly work.

Credit hours and work expectations: This is a 2 credit-hour course. According to [Ohio State bylaws on instruction](#) (go.osu.edu/credithours), students should expect around 2 hours per week of time spent on direct instruction (instructor content and Carmen activities, for example) in addition to 4 hours of homework (reading and assignment preparation, for example) to receive a grade of [C] average.

Attendance and participation requirements: Research shows regular participation is one of the highest predictors of success. With that in mind, we have the following expectations for everyone's participation:

- **Attending online sessions: twice a week**
You are expected to attend each online session. Inform your instructors if you have a need to miss a class. Due to the interactive nature of the class, recorded sessions will not be available for all class sessions. Instructors will notify you if a recorded version will be available if you miss class.
- **Outreach **experience****
Depending upon your outreach project, you may identify an outreach opportunity to participate in virtually. Each student will be able to identify their own opportunity, but participation in your selected experience may take place outside of class time.

Assignments

Refer to the section on academic honesty for information about completing this work, in addition, specific directions for collaboration will be given on each Carmen assignment page

Resume and Curriculum Vita(e) (CV)

You may (should) already have a resume on hand. We will further discuss how to tailor resumes for different types of job postings, and how to best communicate your qualifications. We will also develop your curriculum vita to document and archive your professional activities.

Topic Paper and Outreach Project

Select a topic of your choice on a plant health, plant pathology or entomology issue (preferably related to plant, animal or human health, or environmental quality). Think about public engagement as you select your topic. Why is this topic important? Why should people care?

TOPIC PAPER (Learning Goals 1, 2 and 3)

Conduct literature research and write a paper on your selected topic. Suggested length: 4-6 **pages**, double spaced, not including Literature Cited

Syllabus: Practical Experiences in Plant Health Insects & Diseases of Plants

Build information gathering skills:

Use internet, library, databases and other sources; consult with experts.
Understand the differences between using primary (original) and secondary sources of information.

Build critical thinking skills:

Gain an in-depth understanding of your topic by analyzing and summarizing literature on the topic. Identify strengths and weaknesses, gaps in knowledge and areas for further research. Incorporate your own analyses and interpretations.

Build written communication skills:

Communicate complex topics in a well-written, understandable manner.

These skills can help you in all aspects of your professional and personal lives, and are highly valued by employers.

OUTREACH PROJECT (Learning Goal 4)

Develop materials suitable to deliver your topic to a wider audience. This audience can be one of your choosing, and potential audiences will be discussed in class. You will need to create either a display and interactive outreach activity or a quality virtual tutorial on your topic suitable for participation in an outreach event. Specific examples will be discussed in class, and posted on Carmen. The goal is to educate the general public about your selected topic. We encourage you to be creative!

Build science communication skills:

Communicating scientific topics to general audiences is difficult but very important in today's society. Outreach can also improve your communication skills and increase your understanding and retention of the topic. It's also rewarding to share knowledge and help others become interested and excited about science.

We also hope you will expand your creativity and build skills in new and different types of media, such as video, art, photography, etc.

Digital Story (Learning goal 4)

Today, digital communication is more important than ever. This assignment involves creating a digital story, or video (3-4 minutes). Topic of your choice. In the past, stories have ranged from significant event(s) in life, what you plan to do in my career, hobbies, significant places, travels etc. The goal is to learn how to develop a story and put that story into a video or digital format.

Webinars (Learning Goal 2)

The Master in Plant Health Management program hosts invited speakers who share their perspectives on plant health careers, research and professional development in

Syllabus: Practical Experiences in Plant Health Insects & Diseases of Plants online webinars. The webinars are a unique opportunity to interact online in a small group setting. You will be required to participate in two MPH M Monday night webinars

by connecting via Zoom MPHMSpring21 (Meeting ID: 991 4309 6531 Password: Spring2021) - Mondays, 8:00-9:00 PM EST.

The MPH M webinar schedule is posted on mphm.osu.edu/seminars.

If you are unable to connect on a Monday evening, the presentation recordings can be made available. For each webinar, submit a two-paragraph reflection/summary as part of the Attendance/Participation grade. The webinar reflections are due: 4/21/2021; 11:59PM ET.

Grading and faculty response

Grades

Assignment or category	Points
Resume: Draft 1 10 pts; Draft 2 10 pts. Final 50 pts	70
Curriculum Vita(e): Draft 1 10 pts; Draft 2 10 pts. Final 50 pts	70
Digital Story: Storyboard 10 pts, final video 45 pts	55
Current Topic Paper: Draft outline 25 pts; Final paper 100 pts	125
Current Topic Display and Interactive Activity: Drafts 10 pts, Final 50	60
Two Plant Health Management webinar reflections (or view recorded webinars) 10 + 10	20
Total points	400

See course schedule for due dates

Attendance, participation and late assignments

Our expectations are straightforward - we expect all enrolled to be active participants in both the course and your learning process. In this course, we will discuss assignments and related information on specific class dates, so timely completion of the work and your attendance are critical. However, if emergencies, illness or issues arise, notify the instructors as soon as possible for alternative or make-up arrangements. Excessive unexcused absences may result in a lowering of your final grade.

Use of Zoom Technology in class

A significant component of our interactions in this class will occur through Zoom videoconferencing. Because this mode of discussion has benefits and challenges that differ from in-person class sessions, I want to share my expectations for how we will meet and communicate:

- **Technical Issues:** If you encounter a technical issue with Zoom during a session, first make sure you are using the latest version of Zoom. Next, contact the IT Service Desk at go.osu.edu/it or 614-688-4357(HELP). If issues continue, contact me after the session to learn how to make up for the missed content either via a recording or other means. I will not be able to address technical issues during a live session.
- **Preparation:** Come to the session having completed any readings or pre-work and be ready to have open, civil, and supportive discussions in video and chat spaces. I ask that you update your Zoom profile with your preferred name and add a picture with your face.
- **Participation:** At the start of our sessions, We will share specific expectations for how to use the chat, how to interact, and how to raise questions or concerns as we go. If you are unsure about expectations or are unsure about raising a question, please follow up with us afterward to make sure your questions are answered. Plan to be present during the entire class session as much as you are able. For some activities, I may ask you to share your faces on camera so that we can see each other and connect. Please feel encouraged to use a non-distracting [virtual background](#). Many students and instructors prefer not to share their remote spaces for a variety of reasons. Mute your microphone when others are talking to minimize background noise in the meeting.

If you have any concerns about participating in class over Zoom in this way, please let me know. My goal is to create a safe environment where we can benefit from seeing each other and connecting, but I want to prioritize your safety and well-being.

Recordings: We may be recording our meetings for the benefit of students who may need to be absent. These links will only be shared with students in our class, and only when a student contacts me to make this arrangement.

Grading scale

Total points accumulated will be used as the basis for the final course grade, as follows:

93% - 100%	(511.5 - 550 points)	=	A
90% - 92.9%	(495 - 506 points)	=	A-
87% - 89.9%	(478.5 - 489.5 points)	=	B+
83% - 86.9%	(456.5 - 473 points)	=	B
80% - 82.9%	(440 - 451 points)	=	B-
77% - 79.9%	(423.5 - 434.5 points)	=	C+
73% - 76.9%	(401.5 - 418 points)	=	C
70% - 72.9%	(385 - 396 points)	=	C-
67% - 69.9%	(368.5 - 379.5 points)	=	D+
60% - 66.9%	(330 - 363 points)	=	D
<60%	(less than 330 points)	=	E

Faculty feedback and response time

Grading and feedback

For large assignments, you can generally expect feedback within **10 days**.

E-mail

We will reply to e-mails within **48 hours on school days**.

Other course policies

Academic integrity policy

Policies

- **Reusing past work:** In general, you are prohibited in university courses from turning in work from a past class to your current class, even if you modify it. If you want to build on past research or revisit a topic you've explored in previous courses, please discuss the situation with me.
- **Falsifying research or results:** All research you will conduct in this course is intended to be a learning experience; you should never feel tempted to make your results or your library research look more successful than it was

Ohio State's academic integrity policy

Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understand the University's *Code of Student Conduct*, and that all students will

Syllabus: Practical Experiences in Plant Health Insects & Diseases of Plants
complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow the rules and guidelines established in the University's *Code of Student Conduct* and this syllabus may constitute "Academic Misconduct."

The Ohio State University's *Code of Student Conduct* (Section 3335-23-04) defines academic misconduct as: "Any activity that tends to compromise the academic integrity of the University, or subvert the educational process." Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the University's *Code of Student Conduct* is never considered an "excuse" for academic misconduct, so I recommend that you review the *Code of Student Conduct* and, specifically, the sections dealing with academic misconduct.

If I suspect that a student has committed academic misconduct in this course, I am obligated by University Rules to report my suspicions to the Committee on Academic Misconduct. If COAM determines that you have violated the University's *Code of Student Conduct* (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the University.

If you have any questions about the above policy or what constitutes academic misconduct in this course, please contact me.

Other sources of information on academic misconduct (integrity) to which you can refer include:

- The Committee on Academic Misconduct web pages ([COAM Home](#))
- *Ten Suggestions for Preserving Academic Integrity* ([Ten Suggestions](#))
- *Eight Cardinal Rules of Academic Integrity* (www.northwestern.edu/uacc/8cards.htm)

It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term "academic misconduct" includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct <http://studentlife.osu.edu/csc/>.

Copyright Disclaimer

The materials used in connection with this course may be subject to copyright protection and are only for the use of students officially enrolled in the course for the educational purposes associated with the course. Copyright law must be considered before copying, retaining, or disseminating materials outside of the course.

Safe and Healthy Buckeyes

Health and safety requirements: All students, faculty and staff are required to comply with and stay up to date on all university safety and health guidance (<https://safeandhealthy.osu.edu>),

Syllabus: Practical Experiences in Plant Health Insects & Diseases of Plants which includes wearing a face mask in any indoor space and maintaining a safe physical distance at all times. Non-compliance will result in a warning first, and disciplinary actions will be taken for repeated offenses.”

Creating an environment free from harassment, discrimination and sexual misconduct

The Ohio State University is committed to building and maintaining a community to reflect diversity and to improve opportunities for all. All Buckeyes have the right to be free from harassment, discrimination, and sexual misconduct. Ohio State does not discriminate on the basis of age, ancestry, color, disability, ethnicity, gender, gender identity or expression, genetic information, HIV/AIDS status, military status, national origin, pregnancy (childbirth, false pregnancy, termination of pregnancy, or recovery therefrom), race, religion, sex, sexual orientation, or protected veteran status, or any other bases under the law, in its activities, academic programs, admission, and employment. Members of the university community also have the right to be free from all forms of sexual misconduct: sexual harassment, sexual assault, relationship violence, stalking, and sexual exploitation.

To report harassment, discrimination, sexual misconduct, or retaliation and/or seek confidential and non-confidential resources and supportive measures, contact the Office of Institutional Equity:

1. Online reporting form at equity.osu.edu,
2. Call 614-247-5838 or TTY 614-688-8605,
3. Or Email equity@osu.edu

The university is committed to stopping sexual misconduct, preventing its recurrence, eliminating any hostile environment, and remedying its discriminatory effects. All university employees have reporting responsibilities to the Office of Institutional Equity to ensure the university can take appropriate action:

- All university employees, except those exempted by legal privilege of confidentiality or expressly identified as a confidential reporter, have an obligation to report incidents of sexual assault immediately.
- The following employees have an obligation to report all other forms of sexual misconduct as soon as practicable but at most within five workdays of becoming aware of such information: 1. Any human resource professional (HRP); 2. Anyone who supervises faculty, staff, students, or volunteers; 3. Chair/director; and 4. Faculty member.

This course adheres to The Principles of Community adopted by the College of Food, Agricultural, and Environmental Sciences. These principles are located on the Carmen site for this course; and can also be found at <https://go.osu.edu/principlesofcommunity>. For additional information on Diversity, Equity, and Inclusion in CFAES, contact the CFAES Office for Diversity, Equity, and Inclusion (<https://equityandinclusion.cfaes.ohio-state.edu/>). If you have been a victim of or a witness to a bias incident, you can report it online and anonymously (if you choose) at <https://studentlife.osu.edu/bias/report-a-bias-incident.aspx>.

Accessibility accommodations for students with disabilities

Requesting accommodations

The university strives to make all learning experiences as accessible as possible. In light of the current pandemic, students seeking to request COVID-related accommodations may do so through the university's request process, managed by Student Life Disability Services. If you anticipate or experience academic barriers based on your disability (including mental health, chronic, or temporary medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, I may request that you register with Student Life Disability Services. After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion. SLDS contact information: slds@osu.edu; 614-292-3307; slds.osu.edu; 098 Baker Hall, 113 W. 12th Avenue.

Accessibility of course technology

This online course requires use of Carmen (Ohio State's learning management system) and other online communication and multimedia tools. If you need additional services to use these technologies, please request accommodations with your instructor. If you need an alternate version of an assignment or material in class, please inform instructor and we will work one on one with you to fulfill your need.

- [Carmen \(Canvas\) accessibility](#)

Syllabus: Practical Experiences in Plant Health Insects & Diseases of Plants

Schedule (subject to change)

Week/dates	Topics	To Do items and Due Dates and times (ET)	POINT
Spring 2021 Week 1	Tues 01/12/21 VIRTUAL FOR ALL - Class introductions and overview: Current Topic paper and interactive display/activity, Digital Story, preparing for careers		
	Thurs 01/14/21 VIRTUAL FOR ALL - How to: Resumes and Curriculum Vita(e) (CV)	Bring a print or electronic version of your resume or CV to follow along during the class presentation	
Week 2	Tues 01/19/21 - 1. Digital story assignment and intro to creating a digital story and storyboarding		
	Thurs 01/21/21 - As a class, we will put up your resumes on-screen and provide feedback	Resume: Due 1/21/21 by 3:30 pm Upload to Carmen folder	10
Week 3	Tues 01/26/21 2. Digital story assignment and video editing	Upload revised resumes by 11:59 pm	10
	Thurs 01/28/21 - As a class, we will put up your CVs on-screen and provide feedback	Curriculum Vita (CV): Due 1/18/21 by 3:30 pm Upload to Carmen folder	10
Week 4	Tues 02/02/21 - Importance and purpose of outreach. Discuss options on outreach audiences. - Career Series: Outreach as a career. - Discuss possible Current Topic paper, digital story topics	Upload revised CVs by 11:59 pm	10
	Thurs 02/04/21 Career Series Presentation, Extension and Consulting Careers	Think about paper topics, digital story topics	
Week 5	Tues 02/09/21- NO CLASS; this class will be made up in "Week 15"		
	Thurs 02/11/21 Virtual "field trip" for outreach ideas		

Syllabus: Practical Experiences in Plant Health Insects & Diseases of Plants

Week 6	Tues 02/16/21 - Current Topic Paper Outline – students will present to class and discuss	02/16/21 Due (3:30 pm): Draft Outline for your Current Topic paper – Upload to Carmen (3:30 pm) and discuss in class	25
	Thurs 02/18/21 - “Literature Search Strategy” with Florian Diekmann		
Week 7	Tues 02/23/21 - Present and discuss your ideas for outreach display and interactive activities (for your Current Topic)	02/23/21: Due (3:30 pm) Submit ideas for outreach display and interactive activities for your Current Topic (to discuss in class)	10
	Thurs 02/25/21 Develop and refine ideas for outreach display/activities	Final Resume and CV Due: upload to Carmen Assignments 02/25/21, before 4:00 pm	50 pts resume 50 pts CV
Week 8	Tues 03/02/21- VIRTUAL FOR ALL Discuss your plan for display and interactive activity for your Current Topic	Due 03/02/21 3:30 pm: Upload your plan for display and interactive activity for your Current Topic (upload to Carmen)	10
	Thurs 03/04/21- VIRTUAL FOR ALL - Mid Semester Interviews (Zoom appointments)		
Week 9	Tues 03/09/21 - Discuss storyboard for your digital story as a class	Due 03/09/21 at 3:30 pm: Upload your storyboard for your digital story	10
	Thurs 03/11/21 Career Presentation- Academic Jobs/ Grad School		
Week 10	Tues 03/16/21 - Digital story presentations in class, discuss and provide feedback, Make edits as necessary.	3/16/21 3:30 pm: Digital story video draft due: upload or post online	
	Thurs 03/18/21 Digital story presentations in class, discuss and provide feedback, Make edits as necessary.		
Week 11	Tues 03/23/21 Work on final edits for digital stories (as needed)	03/23/21 11:59 pm: upload FINAL digital story videos for grading	45

Syllabus: Practical Experiences in Plant Health Insects & Diseases of Plants

Week 11	Thurs 03/25/21 Career Presentation- Government Jobs; Adam Cahill		
Week 12	Tues 03/30/21 Job Interviews – how to prepare	3/30/21 Current Topic Paper due (upload to Carmen by 11:59 pm)	100
	Thurs 04/01/21 Discuss the job postings that you have found – discuss interview strategies and questions for your job postings (we will do mock job interviews on 4/14/20)	Bring (or upload in class) a job posting that you are interested in – we will discuss in class	
Week 13	Tues 04/06/21 - Present displays and interactive activities to the class		
	Thurs 04/08/21 Finalize displays and interactive activities	04/08/21 11:59PM Outreach Project Due: Submit all components of your outreach project on Carmen	50
Week 14	Tues 04/13/21 MOCK Job Interviews (for your job posting). Students will play the role of both interview and interviewee	04/13/21 11:59 pm MPHM Seminar reflections due	20
	Thurs 04/15/21 End of semester interview (1-on-1 with instructors)		
Week 15	Tues 04/20/21 End of semester interview (1-on-1 with instructors)		
	No final examination.		